



## SUMMIT SERIES 2x2 MIMO RADIO DETAILED SPECIFICATIONS

### ENCLOSURE PHYSICAL SPECIFICATIONS

Size	7" long x 1.75" in diameter
Weight	.50 lbs.
Mounting	Wall and pole mount
Pole Size	.5 to 3" Outside Diameter
External Connectors	RJ45 Power over Ethernet and N Type Female
AZ/EL Control	Both
Temperature	-55°C to 85°C
Vibration	MIL-STD-810F and IEC 60721-3-4 4M5 Random
Shock Mechanical	MIL-STD-810F and IEC 60721-3-4 4M5
Humidity	100%
Water Ingress	IP67 / NEMA6 / IEC 529
Solar Radiation	ASTM G53 1000h
Ice Load	25mm radial
Salt Fog	MIL-STD-810F and IEC 68-2-11 Ka 500 Hours

### INCLUDED CONFIGURATION AND CONTROL SOFTWARE FEATURES

Name	Feature
SpeedCONFIG	IP Discovery Tool
	Local and Remote Configuration
	Bandwidth Test Tool (On Board and External)
	Spectrum Analysis
	Real Time Received Signal Quality Indicator (RSSI)
	Client Connection Quality (CCQ)
	Antenna Alignment Tool with Audio
Summit View Network Monitoring System	System File Configuration Management and Scripting
	IP Discovery Tool
	Network and Node Management with Link to Configuration Tools
	Real Time Received Signal Quality Indicator (RSSI)
	Real Time Wireless Interface Data Rate Monitoring
	Wireless Event Reporting tool (Audio and Email Capability)

### WIRELESS INTERFACE FREQUENCY SPECIFICATIONS

	2.4 GHz	5.8 GHz
Frequency Range and IEEE Standard	2.412 to 2.462 GHz / 802.11 b/g/n	5.725 to 5.895 GHz / 802.11 a/n
Peak Transmit Power and Transmit Power Control (TPC)	32 dBm (200mW) - Yes	23 dBm (200mW) - Yes
Modulation Type with DFS support	OFDM and DSSS – No	OFDM and DSSS - Yes
TX Channel Width	5, 10, 20, and 40 MHz	5, 10, 20, and 40 MHz

*continued*





WIRELESS INTERFACE FREQUENCY SPECIFICATIONS (CONTINUED)		
Data Rates (Maximum) and Receiver Sensitivity*	802.11b/11, 5.5, 2, 1 Mbps	11 Mbps @ -91 Receive Sensitivity
	802.11g/54, 48, 36, 24, 12, 9, 6 Mbps	54 Mbps @ -77 Receive Sensitivity
	802.11a/ 54, 48, 36, 24, 12, 9, 6 Mbps	54 Mbps @ -77 Receive Sensitivity
	802.11n 144.4 Mbps in 20 MHz Channel 300 Mbps in 40 MHz Channel	802.11n MCS 7 @ -77 Receive Sensitivity MCS 7 @ -74 Receive Sensitivity
Security	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152 bit WEP	WPA, WPA2, AES-CCM & TKIP Encryption, 802.1x, 64/128/152 bit WEP
Outdoor Range (Antenna Dependent)	30 Miles	30 Miles
FCC Part 15	Yes	Yes
CE Mark	Yes	Yes
Industry Canada RSS-210	Yes	Yes
RoHS Compliance	Yes	Yes
ESD/EMP Protection	Yes	Yes
MTBF Rate	160,000 Hours	160,000 Hours

\*NOTE: Data rates are 802.11 compliant data rates and, as with all 802.11 wireless devices, are not representative of actual throughput because the overhead associated with 802.11 wireless protocol uses some of this bandwidth. Maximum typical available throughput is 50% of specified data rate.

IEEE NETWORKING STANDARDS AND DESCRIPTION	
802.1d	Ethernet and Bridging
802.1p	Traffic Prioritization
802.1q	Virtual Local Area Networks (VLAN)
802.1s	Spanning Tree Protocol
802.1w	Rapid Spanning Tree Protocol
802.3ab	Gigabit Ethernet
802.3ac	Q-tag Support for 802.1Q VLAN Information and 802.1p Traffic Priority Information
802.3ad	Link Aggregation for Parallel Links (Now IEEE 802.1AX)
802.3i	10 Mbps Ethernet
802.3u	100 Mbps Ethernet with Auto-Negotiation
802.3ab	1000 Mbps Ethernet
802.3x	Full Duplex and Flow Control (to and from Ethernet port only. Not through the radio)
802.11e	WMM and QoS
802.11h	DFS and TPC



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